

CLAIMS:

1. A spectacle lens supply system supplying a spectacle lens or a spectacle, comprising a manufacturing-side computer performing a process required for receiving an order based on order information on the spectacle lens,

wherein said manufacturing-side computer is configured to be able to, at least, receive or be inputted personal data of each spectacle wearer required to manufacture the spectacle and including a spectacle wearing parameter, and

wherein the spectacle wearing parameter is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a spectacle frame wearing angle, an eyeball rotation angle and a near vision target distance.

2. A spectacle lens supply system, comprising: an order-placement side computer disposed on the order-placement side of a spectacle lens; and a manufacturing-side computer connected to said order-placement side computer in an information exchangeable manner, in which said order-placement side computer and said manufacturing-side computer perform a process required for making and receiving an order for a spectacle lens by exchanging information with each other to supply the spectacle lens or a spectacle,

wherein a spectacle wearing parameter measurement apparatus measuring a spectacle wearing parameter of each spectacle wearer is

connected to said order-placement side computer, and said order-placement side computer is configured to be, at least, transmittable personal data of each spectacle wearer required to manufacture the spectacle including the spectacle wearing parameter, and

5 wherein the spectacle wearing parameter is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a spectacle frame wearing angle, an eyeball rotation angle and a near vision target distance.

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3. The spectacle lens supply system according to claim 1,

 wherein said manufacturing-side computer has a customer database and the personal data of each spectacle wearer required to manufacture the spectacle including the spectacle wearing parameter is recorded and stored in
15 the customer database.

4. The spectacle lens supply system according to claim 2,

 wherein, at least, one of said order-placement side computer and said manufacturing-side computer has a customer database and the personal data
20 of each spectacle wearer required to manufacture the spectacle including the spectacle wearing parameter is recorded and stored in the customer database.

5. The spectacle lens supply system according to any one of claim 1 to
claim 4,

25 wherein the personal data of each spectacle wearer required to manufacture the spectacle includes, at least, one of spectacle lens data,

spectacle frame data, spectacle prescription data, processing instruction data, and a spectacle wearing parameter.

6. A spectacle lens processed in a spectacle lens supply system
5 described in any one of claim 1 to claim 5, characterized in that said spectacle lens being manufactured through an optical designing using personal data of each spectacle wearer required to manufacture a spectacle including a spectacle wearing parameter.
- 10 7. A spectacle processed in a spectacle lens supply system described in any one of claim 1 to claim 5, characterized in that said spectacle lens being manufactured using personal data of each spectacle wearer required to manufacture a spectacle including a spectacle wearing parameter.
- 15 8. A spectacle wearing test system comprising:
 - a spectacle wearing parameter measurement apparatus measuring a spectacle wearing parameter required to manufacture a spectacle suited to a spectacle wearer;
 - 20 a first spectacle wearing parameter acquisition means acquiring the spectacle wearing parameter before manufacturing the spectacle of the spectacle wearer;
 - a second spectacle wearing parameter acquisition means acquiring the spectacle wearing parameter after manufacturing the spectacle of the spectacle wearer; and
- 25 a comparison means making comparison using the spectacle wearing parameter figures acquired by said first spectacle wearing parameter

acquisition means and said second spectacle wearing parameter acquisition means,

wherein the spectacle wearing parameter measured by said spectacle wearing parameter measurement apparatus is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a spectacle frame wearing angle, an eyeball rotation angle and a near vision target distance.

10 9. A spectacle wearing test system comprising:

a spectacle wearing parameter measurement apparatus measuring a spectacle wearing parameter required to manufacture a spectacle suitable for a spectacle wearer;

15 a first spectacle wearing parameter acquisition means acquiring the spectacle wearing parameter before manufacturing the spectacle of the spectacle wearer;

a second spectacle wearing parameter acquisition means acquiring the spectacle wearing parameter after manufacturing the spectacle of the spectacle wearer;

20 a comparison means making comparison using the spectacle wearing parameter figures acquired by said first spectacle wearing parameter acquisition means and said second spectacle wearing parameter acquisition means; and

25 a verification means verifying by determining whether or not a spectacle wearing state is appropriate based on a figure obtained by said comparison means,

wherein the spectacle wearing parameter measured by said spectacle wearing parameter measurement apparatus is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a 5 spectacle frame wearing angle, an eyeball rotation angle and a near vision target distance.

10. The spectacle wearing test system according to claim 8 or claim 9, further comprising:

10 a customer database connected to said spectacle wearing parameter measurement apparatus in an information exchangeable manner,

wherein the figure(s) of the spectacle wearing parameter acquired by said first spectacle wearing parameter acquisition means or/and said second spectacle wearing parameter acquisition means is(are) recordable in said 15 customer database, and

wherein said comparison means makes the comparison between the spectacle wearing parameters of a same spectacle wearer acquired by said first spectacle wearing parameter acquisition means and second spectacle wearing parameter acquisition means with figures.

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11. A spectacle wearing test system comprising:

a spectacle wearing parameter measurement apparatus measuring a spectacle wearing parameter required to manufacture a spectacle suitable for a spectacle wearer;

25 a memory means connected to said spectacle wearing parameter measurement apparatus in an information exchangeable manner and capable

of recording, at least, a spectacle wearing parameter;

a spectacle wearing parameter acquisition means acquiring the spectacle wearing parameter from said memory means; and

5 a comparison means comparing the spectacle wearing parameter at present time measured by said spectacle wearing parameter measurement apparatus with the spectacle wearing parameter of the same spectacle wearer acquired by said spectacle wearing parameter acquisition means with figures,

10 wherein the spectacle wearing parameter measured by said spectacle wearing parameter measurement apparatus is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a spectacle frame wearing angle, an eyeball rotation angle and a near vision target distance.

15 12. A spectacle wearing parameter measurement apparatus measuring a spectacle wearing parameter required to manufacture a spectacle suited to a spectacle wearer, comprising:

20 a vision fixing means setting the spectacle wearer wearing a spectacle frame to be in a distance vision state or a near vision state and, in the near vision state, at least, one of an eyeball rotation angle and a near vision target distance can be changed optionally,

an image input means taking an image of the spectacle wearer set in the distance vision state or the near vision state by said vision fixing means using an image pickup device to import the image; and

25 a measurement and calculation means measuring and calculating the spectacle wearing parameter based on the taken image obtained by said image

input means.

13. The spectacle wearing parameter measurement apparatus according to claim 12,

5 wherein the spectacle wearing parameter measured and calculated by said measurement and calculation means is, at least, one of a distance vision inter-pupil distance, a near vision inter-pupil distance, a distance vision spectacle wearing distance, a near vision spectacle wearing distance, a spectacle frame wearing angle, an eyeball rotation angle and a near vision
10 target distance.

14. The spectacle wearing parameter measurement apparatus according to claim 12 or claim 13,

15 wherein said vision fixing means moves in a rotating manner around a center of rotation of an eyeball by being interlocked with the image pickup device to always keep an optical axis of the image pickup device match with an axis of sighting of the eyeball.

16. The spectacle wearing parameter measurement apparatus according to any one of claim 12 to claim 14,

25 wherein, of the spectacle wearing parameter, the eyeball rotation angle and the near vision target distance are measured by being changed and determined by said vision fixing means while letting the spectacle wearer confirm an appropriate near vision state.

16. The spectacle wearing parameter measurement apparatus according to

any one of claim 12 to claim 15,

wherein, of the spectacle wearing parameter, the distance vision spectacle wearing distance and the near vision spectacle wearing distance are measured by a calculation in consideration of a three dimensional shape of
5 the spectacle frame.

17. The spectacle wearing parameter measurement apparatus according to any one of claim 12 to claim 16,

wherein, of the spectacle wearing parameter, the near vision inter-
10 pupil distance is measured by a calculation on a spectacle lens surface of the spectacle worn by the spectacle wearer.

18. The spectacle wearing parameter measurement apparatus according to any one of claim 12 to claim 17,

15 wherein a vision fixing beam in a distance vision state set by said vision fixing means is formed as a virtual image.

19. The spectacle wearing parameter measurement apparatus according to any one of claim 12 to claim 18,

20 wherein said measurement and calculation means detects a blinking of the spectacle wearer and takes an image of the spectacle wearer when the spectacle wearer gazes unblinkingly.

25 20. A spectacle lens manufactured through an optical designing using, at least, one of spectacle wearing parameters measured by a spectacle wearing parameter measurement apparatus described in any one of claim 12 to claim

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21. A spectacle manufactured using, at least, one of spectacle wearing parameters measured by a spectacle wearing parameter measurement apparatus described in any one of claim 12 to claim 19.